Index of Claims



Application/Control No.

09/934,685

Examiner

HELEN SHIBRU

Applicant(s)/Patent under Reexamination

HASHIMOTO, CHIAKI

Art Unit

2621

| <b>√</b> | Rejected | - | (Through numeral)<br>Cancelled |   | ı | Non-Elected  | A | Appeal   |
|----------|----------|---|--------------------------------|---|---|--------------|---|----------|
| =        | Allowed  | ÷ | Restricted                     | 1 |   | Interference | 0 | Objected |

| Cla          | laim Date |                                     |              |  |  |  |  |  | lain              | 1        | Date     |     |            |          |  |  |  |          | CI       | aim           | Date          |          |              |          |                    |          |          |            |                 |  |          |          |
|--------------|-----------|-------------------------------------|--------------|--|--|--|--|--|-------------------|----------|----------|-----|------------|----------|--|--|--|----------|----------|---------------|---------------|----------|--------------|----------|--------------------|----------|----------|------------|-----------------|--|----------|----------|
|              |           |                                     |              |  |  |  |  |  |                   |          |          |     |            |          |  |  |  |          |          |               | - T           | 7        |              |          | П                  | $\top$   | Т        | $\Box$     | П               | $\neg$   | Т        |          |
| <del> </del> | na        | ဗြ                                  |              |  |  |  |  |  |                   |          | ~        |     | Original   |          |  |  |  | - 1      |          |               |               |          | <u></u>      | Original |                    | ŀ        |          |            |                 |  |          |          |
| Final        | įģ        | 90/6/9                              |              |  |  |  |  |  |                   |          | Final    |     | ੂਙ         |          |  |  |  |          |          | ı             |               | 1        | Final        | ığı      | l                  |          |          |            |                 |  | j        |          |
| "            | Original  | 9                                   |              |  |  |  | 1  |  |                   | ı        | "        |     | 5          |          |  |  |  |          | ı        |               |               | 1        | -            | ō        |                    |          |          | '          |                 |  |          |          |
| <u> </u>     |           | _                                   | -            | Н  | <u> </u>   | Н  | H  | <u> </u>   |                   |          | -        | +,  | -          |          |  | _  |  | $\dashv$ | $\dashv$ | -             | +             | ┥        | -            | 101      | $\vdash$           |          | ╁╴       | ₩          | $\vdash$        | -+   | $\dashv$ | _        |
| 1            | 1         | =                                   |              |  | _  |  | _  | _  | $\rightarrow$     | -        | -        |     | 1          |          |  | _  | -  | $\dashv$ | -        |               | -             | 4        |              |          | $\vdash$           | +        | ╁        | ┰          | ⊢               | $\dashv$   | $\dashv$ | _        |
| 2            | 2         | =                                   |              |  |  |  |  | _  | $\rightarrow$     |          |          |     | 2          |          |  |  |  | $\dashv$ | _        |               | +             | 4        | <u> </u>     | 102      | $\vdash$           |          | ┢        | <b>├</b> ─ | $\vdash$        | -  | +        |          |
| 3            | 3         | =                                   |              |  |  |  |  |  |                   | _        | <u> </u> | :   | 3          |          |  |  |  |          |          |               |               | _        | <u> </u>     | 103      | $\vdash$           |          | _        | —          | $\sqcup$        |  | 4        |          |
| 4            | 4         | =                                   | _            |  | _  |  |  |  | _                 |          | <u> </u> | _‡: | 4          |          |  |  |  | $\dashv$ | _        | $\rightarrow$ |               | 4        |              | 104      |                    |          | <u> </u> | <u> </u>   | Ш               | _  | 4        |          |
| 5            | 5         | =                                   |              |  |  |  |  |  |                   |          |          |     | 5          |          |  |  |  |          |          |               |               | _        |              | 105      |                    |          | 上        | <u> </u>   |                 |  | _        | _        |
| 6            | 6         | =                                   |              |  |  |  |  |  |                   |          |          |     | 6          |          |  |  |  |          |          |               |               |          |              | 106      |                    |          | L        | <u> </u>   |                 |  |          |          |
| 7            | 7         | =                                   |              |  |  |  |  |  |                   |          |          | !   | 7          |          |  |  |  |          |          |               |               | ╛        |              | 107      |                    |          |          | <u> </u>   |                 |  |          |          |
| 8            | 8         | = ,                                 |              |  |  |  |  |  |                   |          |          |     | 8          |          |  |  |  |          |          |               | 1_            | _        | L            | 108      |                    |          | 1        |            |                 |  |          |          |
| 9            | 9         | =                                   |              |  |  |  |  |  | П                 |          |          | 7 : | 9          |          |  |  |  |          | $\Box$   |               | Т             | 7        |              | 109      |                    |          |          |            |                 |  |          |          |
| 10           | 10        | =                                   |              |  |  |  |  |  |                   |          |          | 10  | <u>;0</u>  |          |  |  |  |          | ヿ        |               | $\neg$        | 7        |              | 110      |                    |          |          | $\Box$     | П               | $\Box$   | П        | $\neg$   |
| <u> </u>     | 11        | Г                                   |              |  |  |  |  |  | Ħ                 |          |          |     | 31         |          | _  |  | П  |          | $\neg$   | $\top$        | $\neg \vdash$ | 7        |              | 111      |                    |          |          | П          |                 | $\dashv$   | $\neg$   | $\neg$   |
|              | 12        | Т                                   |              |  |  | $\vdash$   | $\Box$   |  | $\Box$            |          |          | 1   | 32         |          |  |  | П  |          | 寸        | $\dashv$      | $\top$        | 1        |              | 112      |                    |          | T        | П          | П               | $\dashv$   | $\dashv$ | $\neg$   |
| <b>—</b>     | 13        | $\vdash$                            | -            |  |  |  | $\vdash$   |  | $\vdash$          | $\dashv$ | -        |     | 33         | h        |  |  | М  |          | ヿ        | 十             | $\neg$        | 7        |              | 113      |                    | $\dashv$ | 1        | T-         |                 | 寸  | $\dashv$ | ㅋ        |
| <b></b>      | 14        |                                     |              | <b>-</b>   | $\vdash$   | <del>                                     </del> | H  | Н  | $\vdash$          | $\dashv$ | $\vdash$ | +   | 34         | Н        | _  | $\vdash$   | Н  | $\vdash$ | $\neg$   | $\dashv$      | +-            | 1        |              | 114      |                    | $\top$   | T        | T          | $\vdash$        | $\dashv$   | 十        | $\dashv$ |
|              | 15        | $\vdash$                            | $\vdash$     | -  | $\vdash$   | -  | $\vdash$   | $\vdash$   | $\vdash$          | $\dashv$ | $\vdash$ |     | 55         | Н        | _  | $\vdash$   | Н  | $\dashv$ | $\dashv$ | $\dashv$      | +             | ┪        | <del> </del> | 115      | $\vdash \vdash$    | +        | $\vdash$ | $t^{-}$    | $\vdash$        | +  | $\dashv$ | $\dashv$ |
| -            | 16        | $\vdash$                            | H            |  | $\vdash$   | -  | $\vdash$   | $\vdash$   |                   |          | $\vdash$ |     | 6          | $\vdash$ | <del> </del>                                     | $\vdash$   | Н  | $\vdash$ | $\dashv$ | $\dashv$      | +             | ┨        | $\vdash$     | 116      | $\vdash$           | +        | $\vdash$ | +          | $\vdash \vdash$ | $\dashv$   | +        | $\dashv$ |
| -            | 17        | ⊢                                   | <del> </del> | ├  | $\vdash$   | $\vdash$   | -  | $\vdash$   | -                 | $\dashv$ | -        | +   | 57         | $\vdash$ | $\vdash$   | $\vdash$   |  | -        | $\dashv$ | $\dashv$      | -             | $\dashv$ | $\vdash$     | 117      | ┝                  |          | +-       | +          | $\vdash$        | $\dashv$   | +        | $\dashv$ |
| -            |           | <del> </del>                        |              | <u> </u>   | $\vdash$   | -  | <del> </del>                                     | $\vdash$   | $\vdash \vdash$   | $\dashv$ | -        |     | 88         | Н        | <u> </u>   | -  | $\vdash$   | $\dashv$ | $\dashv$ | +             | +             | ┨        | <u> </u>     | 118      | ⊢⊹                 |          | +        | $\vdash$   | $\vdash$        | $\dashv$   | $\dashv$ | $\dashv$ |
| <u> </u>     | 18        | <u> </u>                            | <u> </u>     |  | -  |  | ⊢  | _  | $\vdash$          |          |          |     |            | $\vdash$ |  | _  |  | _        |          | -             | $\dashv$      | -        | -            | 110      | $\vdash$           | -        | ╀        | $\vdash$   | $\vdash$        | $\dashv$   | $\dashv$ | $\dashv$ |
|              | 19        |                                     | <u> </u>     | _  | <u> </u>   | $\vdash$   | <u> </u>   | <u> </u>   | $\longrightarrow$ |          | <u> </u> |     | 9          | Н        |  | <u> </u>   |  | $\dashv$ |          | $\dashv$      |               | 4        |              | 119      | <del>  -   -</del> |          | +        | ₩          | -               |  | -        | -        |
| <u> </u>     | 20        | <u> </u>                            |              |  | L.   |  |  | _  |                   | _        | <u> </u> |     | 0          | Щ        | _  |  |  | _        |          | _             |               | 4        |              | 120      |                    | -        | ļ        | —          | $\sqcup$        | $\dashv$   | $\dashv$ | _        |
|              | 21        |                                     |              |  |  |  |  | _  |                   |          | <u></u>  |     | 1          |          |  | Щ  |  |          | _        | _             |               | 4        |              | 121      |                    |          | _        | ₩          | $\sqcup$        | $\dashv$   | _        | _        |
|              | 22        |                                     |              | Ĺ  |  |  |  |  |                   | _        |          | Ŀ   | 2          |          |  | _  |  | $\Box$   | _        |               |               | _        |              | 122      | Ш                  |          | _        | ↓_         | $\sqcup$        | _  | _        | _        |
|              | 23        |                                     |              |  |  |  |  |  |                   |          |          |     | 73         |          |  |  |  |          |          |               |               |          |              | 123      |                    |          |          | <u> </u>   |                 |  | _        |          |
|              | 24        |                                     |              |  | Г  |  |  |  |                   |          |          |     | <b>7</b> 4 |          |  |  |  |          |          |               |               |          |              | 124      |                    |          |          |            | 1.              |  |          |          |
|              | 25        |                                     |              | Г  | Г  |  |  |  |                   |          |          |     | '5         |          |  |  |  |          |          |               |               |          |              | 125      |                    |          |          |            |                 |  |          |          |
|              | 26        |                                     |              | Г  |  |  |  |  |                   | _        |          |     | 76         |          |  |  |  |          |          |               |               |          |              | 126      |                    | T        | П        | П          |                 | $\Box$   |          |          |
|              | 27        |                                     |              |  | Г  |  |  |  |                   | $\neg$   |          | 1   | 77         |          |  |  |  |          |          |               |               |          |              | 127      |                    |          | П        | T          |                 | $\neg$   | $\Box$   |          |
| ·            | 28        | $\vdash$                            | Т            |  | ╁  |  |  |  |                   | $\neg$   |          | Τ.  | 78         |          |  | Г  |  |          | 寸        | 一             | $\dashv$      | 7        |              | 128      |                    |          | T        | $\top$     |                 | ヿ  | $\dashv$ |          |
|              | 29        | ┢                                   | -            | _  | ┢  | H  | <del> </del>                                     |  | $\vdash$          | $\dashv$ |          | +   | 79         |          |  | $\vdash$   |  |          | _        | 十             | $\dashv$      | 7        |              | 129      |                    |          | T        | ✝          | П               | $\neg$   | 寸        | $\neg$   |
|              | 30        |                                     | -            | -  |  | ╁  | ╁  |  |                   | $\dashv$ |          |     | 30         | $\vdash$ |  | 1  |  |          | $\dashv$ | 十             | +             | ┪        | _            | 130      | <del>     </del>   | $\top$   | +        | ╁┈         | $\vdash$        |  | $\dashv$ | $\dashv$ |
|              | 31        | ⊢                                   | -            | ├  | <del> </del>                                     | $\vdash$   |  |  | $\vdash$          | $\dashv$ | -        |     | 31         | -        | ┢  | $\vdash$   |  | $\vdash$ | $\dashv$ | $\dashv$      | +             | ┪        |              | 131      | $\vdash$           | $\dashv$ | +-       | +-         |                 | $\dashv$   | 寸        | $\dashv$ |
|              | 32        | ├                                   | <del> </del> | ⊢  | ⊢  | -  | <del>                                     </del> | H  | -                 | $\dashv$ | -        |     | 32         |          | $\vdash$   | _  |  | Н        | $\dashv$ |               | -             | ╣        | -            | 132      | -                  | +        | ╁╌       | ╁          | $\vdash$        | -  | -+       | $\dashv$ |
| -            |           |                                     | $\vdash$     | ├-   | <del> </del>                                     | -  | -  | $\vdash$   | $\vdash \vdash$   | $\dashv$ | -        |     | 33         | $\vdash$ | $\vdash$   | -  | Н  | Н        |          | $\dashv$      | $\dashv$      | $\dashv$ |              | 133      | $\vdash$           | +        | +-       | +          | $\vdash$        | $\dashv$   | $\dashv$ | $\dashv$ |
|              | 33        | <del> </del>                        | $\vdash$     | $\vdash$   | $\vdash$   | -  | <del> </del>                                     | ├  | $\vdash \vdash$   | $\dashv$ | -        | +   | 23         | -        | $\vdash$   | $\vdash$   | $\vdash$   |          | -        | $\dashv$      | +             | -        | <u> </u>     | 134      | <del>  - </del> -  | $\dashv$ | ╁        | ╁          | ╂━┥             | $\dashv$   | $\dashv$ | $\dashv$ |
|              | 34        | _                                   | -            | <u> </u>   | <u> </u>   | <u> </u>   | <u> </u>   | ├  | $\vdash$          | $\dashv$ | -        | +   | 34         | -        | -  | $\vdash$   | $\vdash$   | Н        |          | $\dashv$      | $\dashv$      | -        | <b>—</b>     | 134      | $\vdash$           |          | ╁        | +          | $\vdash$        | $\dashv$   | $\dashv$ | $\dashv$ |
| <u> </u>     | 35        | <u> </u>                            | <u> </u>     | <u> </u>   | -  | $\vdash$   | -  | ├  | Н                 |          | -        |     | 35         | <u> </u> | <u> </u>   | ├  |  | Н        | $\dashv$ | -+            | $\dashv$      | 4        | -            | 135      | ┝╼┼                | -        | +-       | +-         |                 |  | $\dashv$ | -        |
| <u></u>      | 36        | <u>_</u>                            | <u> </u>     | <u> </u>   | <u> </u>   | <b>!</b>   | <u> </u>   | _  |                   | _        |          | 4   | 36         | _        | <u> </u>   | <u> </u>   | <u> </u>   | $\vdash$ | _        | -             | +             | 4        |              | 136      | ⊢┼                 | +        | +        | ╀          | Н               | _  | -        | _        |
| L            | 37        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _            | _  | <u> </u>   | <u> </u>   | <u> </u>   | L_   | Щ                 | _        | $\vdash$ |     | 37         |          |  | L  | _  | Щ        | _        | _             | _             | _        | <u></u>      | 137      | $\vdash \vdash$    |          | +-       | ╀          | $\sqcup$        | _  | $\dashv$ |          |
|              | 38        |                                     |              | _  | <u> </u>   | <u> </u>   | L_   | <u> </u>   | Ш                 |          | <u></u>  |     | 38         | <u> </u> | ļ  | L_   | <u> </u>   | Ш        | $\Box$   | $\perp$       |               | _        |              | 138      | $\sqcup$           |          | 1        | 1          | Ш               |  |          |          |
|              | 39        | $oxedsymbol{oxed}$                  |              | L  | oxdot  | L  |  |  | Ш                 | Ш        | L_       |     | 39         |          | <u> </u>   | 匚  |  | $\Box$   |          | $\bot$        |               | _        | L            | 139      | <del>     </del>   |          | 1        | 丄          | Ш               | $\Box$   |          |          |
|              | 40        |                                     |              |  |  |  | L  | $L^{-}$  |                   |          |          |     | 90         |          |  |  |  |          |          | $\bot$        |               | _        |              | 140      |                    |          | $\perp$  | $\perp$    |                 |  |          |          |
|              | 41        |                                     |              |  |  |  |  | Г  |                   |          |          |     | 91         |          | L  | L  |  |          |          |               |               | ]        |              | 141      | oxdot              |          |          |            |                 |  | $\Box$   |          |
|              | 42        |                                     |              |  | Π  |  | Ι.   | [  |                   | $\neg$   |          |     | 92         |          |  |  |  |          |          |               |               |          |              | 142      |                    |          | $\Gamma$ |            |                 |  |          |          |
|              | 43        |                                     |              | Π  |  | Г  |  |  |                   | $\neg$   |          |     | 93         |          |  |  |  |          |          | 一             | 7             | 7        |              | 143      | ПТ                 | $\top$   |          | Т          |                 |  | $\neg$   |          |
|              | 44        | Г                                   | Т            | <u> </u>   | <u> </u>   | <del>                                     </del> | T  |  | Н                 | $\neg$   | $\vdash$ |     | 94         |          |  | Г  |  |          |          | $\neg$        | $\top$        | 7        |              | 144      | $\sqcap$           |          | 1        | $\top$     | П               | ヿ  | $\neg$   |          |
|              | 45        | $\vdash$                            | <u> </u>     |  | $t^-$  | T  | ┢  |  | Н                 | $\dashv$ | $\vdash$ | +   | 95         | Т        | Т  | Т  |  | $\vdash$ |          | 十             | $\top$        | 7        |              | 145      |                    | +        | 1        | T          | П               | 一  | _        |          |
| <b>—</b>     | 46        | <del> </del>                        |              | <del>                                     </del> | <del>                                     </del> | $\vdash$   | $\vdash$   | <del>                                     </del> | Н                 | $\dashv$ |          |     | 36         | $\vdash$ | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> |          | $\dashv$ | $\dashv$      | $\dashv$      | ┪        | -            | 146      |                    | $\vdash$ | $\top$   | +          | $\vdash$        |  | $\dashv$ |          |
| -            | 47        | $\vdash$                            | $\vdash$     | -  | $\vdash$   | <del>                                     </del> | $\vdash$   | $\vdash$   | $\vdash$          | $\dashv$ | -        | +   | 97         | -        | -  | $\vdash$   | $\vdash$   | H        | $\vdash$ | -             |               | ┨        | -            | 147      | $\vdash$           | -        | +-       | +          | $\vdash$        | $\dashv$   | $\dashv$ |          |
|              |           | -                                   |              | $\vdash$   | +-   | $\vdash$   | ├  | $\vdash$   | $\vdash$          | $\dashv$ | -        |     | 98         |          | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$ | $\vdash$ |               | +-            | $\dashv$ | -            | 148      | $\vdash$           |          | ╁        | +          | ╁               | $\vdash$   | $\dashv$ | -        |
|              | 48        | $\vdash$                            | ⊢            | ├  | ┼  | ├  | -  | -  | $\vdash$          | $\dashv$ | $\vdash$ | +   | 20         | ├        | $\vdash$   | ₩  | -  | -        | $\vdash$ | $\dashv$      | +             | $\dashv$ | -            | 149      | <del>  -  </del>   | $\dashv$ | +        | ╁          | +               | $\dashv$   | $\dashv$ | _        |
|              | 49        | ⊢-                                  | ₩            | ├-   | -  | -  | -  | $\vdash$   | $\vdash$          | $\dashv$ | <u> </u> |     | 9          | ├-       | ├-   | ₩  | $\vdash$   | $\vdash$ | $\vdash$ |               | -}-           | -        |              | 149      | ⊢┼                 | +        | ╁        | ┼          | -               | <del>                                     </del> | $\dashv$ | _        |
| L            | 50        | <u> </u>                            | <u> </u>     | 1  | <u> </u>   | L.,  | L_   | L  |                   |          | L_       | 1   | 00         | L        |  | Щ.   | Щ  |          |          | 1             |               |          | L            | 150      | $\perp \perp$      | L_       |          |            | 1               |  |          |          |